| Index of Claims |  |  |  |  |   |  |  |  |  |  |
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Application/Control No.

10/767,381

Examiner

Reexamination

MATHEW ET AL.

Applicant(s)/Patent under

Art Unit

2161

Paul Kim

Rejected Allowed

(Through numeral) Cancelled

Restricted

Non-Elected N Interference

**Appeal** Α 0 Objected

| Cla         | aim      |                   |  |  | [  | Date         | e  |  |  |  |   | Cla         | aim      |  |  | _  | (  | Date   | =  | _ |
|-------------|----------|-------------------|--|--|--|--------------|--|--|--|--|---|-------------|----------|--|--|--|--|--|--|---|
| Final       | Original | 4/26/25/2         | 7                                      |  |  |              |  |  |  |  |   | Final       | Original |  |  |  |  |  |  |   |
|             | 1        | +                 |  |  |  |              |  |  |  |  |   |             | 51       |  |  |  | Г  |  |  |   |
|             | 2        | T                 |  |  | П  |              |  |  |  |  |   |             | 52       |  |  |  |  |  |  |   |
|             | 3        | П                 | 1                                      |  |  |              |  |  |  |  |   |             | 53       |  |  |  |  |  |  |   |
|             | 4        | П                 |  |  |  |              |  |  |  |  |   |             | 54       |  |  |  |  |  |  |   |
|             | 5        | П                 |  |  |  |              |  |  |  |  |   |             | 55       |  |  |  |  |  |  |   |
|             | 6        | П                 |  |  |  |              |  |  |  |  |   |             | 56       |  |  |  |  |  |  |   |
|             | 7        | П                 |  |  |  |              |  |  |  |  |   |             | 57       |  |  |  |  |  |  | L |
|             | 8        | П                 |  |  |  |              |  |  |  |  |   |             | 58       |  |  |  |  |  |  | Γ |
|             | 9        | П                 |  |  |  |              |  |  |  |  |   |             | 59       |  |  |  |  |  |  | Γ |
|             | 10       | П                 | 1                                      | Π  | П  |              |  |  |  |  |   |             | 60       |  |  |  |  |  |  | L |
|             | 11       | П                 | Τ                                      | П  |  |              |  |  |  |  |   |             | 61       |  |  |  |  |  |  | Γ |
|             | 12       | П                 |  | Π  | Г  |              |  |  |  |  |   |             | 62       |  |  |  |  |  |  | Γ |
|             | 13       | П                 | T                                      |  |  |              |  |  |  |  |   |             | 63       |  |  |  |  |  |  | Γ |
|             | 14       | П                 | T                                      |  |  |              |  |  |  |  |   |             | 64       |  |  |  | Г  |  |  | Γ |
|             | 15       | П                 | 1                                      |  |  |              |  |  |  |  |   |             | 65       |  |  |  |  |  |  | Γ |
|             | 16       | П                 | T                                      | Г  |  | П            |  |  |  |  |   |             | 66       | Г  |  |  |  |  |  | Γ |
|             | 17       | П                 | 1                                      |  |  |              | Π  |  |  |  | Ì |             | 67       | Г  |  |  |  |  |  | Γ |
|             | 18       | $\sqcap$          | 1                                      |  |  |              |  |  |  |  | 1 |             | 68       |  |  |  |  |  |  | T |
|             | 19       | 17                | †                                      |  |  | <u> </u>     | _  |  |  |  | 1 |             | 69       |  |  |  |  |  |  | T |
|             | 20       | $\dagger \dagger$ | T                                      |  | 一  | ऻ            | <u> </u>   |  |  | $\Box$   | 1 |             | 70       |  |  |  |  |  |  | T |
|             | 21       | Ħ                 | T                                      | <u> </u>   |  |              |  |  |  | $\overline{}$                                    | 1 |             | 71       |  |  |  |  |  |  | T |
| <u> </u>    | 22       | Ħ                 | T                                      | $\vdash$   | 1  |              | 1  |  |  |  | 1 |             | 72       |  |  |  |  |  |  | T |
|             | 23       | Ħ                 | T                                      |  |  | <del> </del> |  |  |  |  | 1 |             | 73       | $\vdash$   | $\vdash$   |  | T  |  |  | T |
| -           | 24       | ††                | +-                                     | 1  | $\vdash$   | ┢            | $\vdash$   | _  |  |  | i |             | 74       |  | $\vdash$   | _  | 1  | $\vdash$   |  | T |
|             | 25       | H                 | +                                      | †  |  |              | ⇈  | _  |  | -  | i |             | 75       |  |  |  |  |  |  | T |
| <del></del> | 26       | H                 | +                                      | <del> </del>                                     | ╁  |              | $\vdash$   | H  | $\vdash$   |  | 1 |             | 76       |  | <u> </u>   |  |  |  | $\vdash$   | t |
| <b>—</b>    | 27       | H                 | +                                      | t  | <del> </del>                                     | ┢            | $\vdash$   | $\vdash$   | $\vdash$   |  | 1 |             | 77       | _  | _  |  | $\vdash$   |  |  | t |
| <u> </u>    | 28       | H                 | +                                      | $\vdash$   | <del> </del>                                     | ╁            |  | $\vdash$   |  |  | 1 |             | 78       |  |  |  |  |  |  | t |
| <del></del> | 29       | H                 | $\dagger$                              | <del>                                     </del> | <del>                                     </del> |              |  | T  |  |  | ĺ |             | 79       | <del> </del>                                     | -  |  |  |  |  | T |
|             | 30       | H                 | ╁                                      | <del> </del>                                     | $\vdash$   |              |  | 一  | _  | <u> </u>   | 1 |             | 80       | <u> </u>   |  | H  |  |  | _  | T |
|             | 31       | ╁                 | +                                      | $\vdash$   | $\vdash$   |              | $\vdash$   |  | <u> </u>   | -  | i |             | 81       |  |  |  | Г  | _  | <del>                                     </del> | t |
|             | 32       | H                 | +                                      | $\vdash$   | $\vdash$   | ╁╌           | $\vdash$   | -  |  |  |   | <del></del> | 82       |  | _  | _  | ╁  | <b>—</b>   | T  | t |
|             | 33       | H                 | +                                      | †-   | ┼  | Ħ            |  | 一  | _  |  | 1 |             | 83       | -  |  |  |  |  | _  | t |
|             | 34       | Н                 | +                                      | +-   | ┼┈   |              |  | 一  |  | -  | 1 |             | 84       |  |  | T  | Г  | Г  | ┰  | T |
|             | 35       | Į                 | +                                      | ╁╴   | ┢  |              |  | -  | $\vdash$   |  | 1 |             | 85       | -  |  | T  | Т  | 一  | <del>                                     </del> | t |
|             | 36       | 1                 |  | +-   | ⇈  | 1            |  | $\vdash$   | _  | _  | 1 |             | 86       |  |  | <u> </u>   | Г  |  | Т  | t |
| 1           | 37       | Ť                 | +                                      | 1  | <del>                                     </del> | <u> </u>     | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | 1 |             | 87       | <del>                                     </del> | $\vdash$   | <del>                                     </del>   | Г  |  | $\vdash$   | t |
|             | 38       | +                 | +                                      | $\top$   | $\vdash$   | <del> </del> | <del>                                     </del> | <del>                                     </del> | Т  | $\vdash$   | 1 | <b></b>     | 88       | t  | <u> </u>   | Г  | _  | 1  | T  | t |
| <b>—</b>    | 39       | ╆                 | +-                                     | †  | $\vdash$   | ┪            | $\vdash$   |  |  | $\vdash$   | 1 |             | 89       |  |  | $\vdash$   | Г  | T-   | T  | t |
|             | 40       | +                 | +-                                     | ╁  | H  | 一            | $\vdash$   | <del> </del>                                     | $\vdash$   |  | 1 | <b>—</b>    | 90       |  | 一  | <del>                                     </del>   | <del>                                     </del> | <del>                                     </del> |  | t |
|             | 41       | t                 | +-                                     | ╁╾   | t  | $\vdash$     | $\vdash$   | <del>                                     </del> | $\vdash$   | $\vdash$   | 1 | <b>—</b>    | 91       |  | ┢  | <del>                                     </del>   | <del>                                     </del> | $\vdash$   |  | t |
|             | 42       | +                 | +-                                     | +  |  | +            | †  | t  | T  |  | 1 |             | 92       |  | <del>                                     </del> | Т  | 1  | 1  | T  | t |
| $\vdash$    | 43       | +                 | +                                      | +-   | $\vdash$   | $\vdash$     | ┢  | 一  | $\vdash$   | <del>                                     </del> | 1 | $\vdash$    | 93       | Ι-   | <del>                                     </del> | $\vdash$   |  | t  | T  | t |
| $\vdash$    | 44       | H                 | ╁╌                                     | ╁  | t  | H            | $\vdash$   | $\vdash$   | $\vdash$   |  | 1 |             | 94       | <del>                                     </del> | $\vdash$   | <del>                                     </del>   | 1  | $\vdash$   | $\vdash$   | t |
|             | 45       | ╁                 | +                                      | 1  | t  | $\vdash$     | T  | <del>                                     </del> | $\vdash$   | <del>                                     </del> | 1 |             | 95       | $\vdash$   | $\vdash$   |  | <del>                                     </del> | <u> </u>   | Г  | t |
| $\vdash$    | 46       | ╁                 | +                                      | +  | +-   | $\vdash$     | <del>                                     </del> | $\vdash$   | ╁  | ┢  | 1 |             | 96       |  |  |  | 1  |  | 1  | t |
| -           | 47       | +                 | +-                                     | +-   | $\vdash$   | $\vdash$     | ╁  | $\vdash$   | <del>                                     </del> | ┢  | 1 | <u> </u>    | 97       | $\vdash$   | ┢  | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | t |
| -           | 48       | ╁                 | +-                                     | +  | $\vdash$   | ├-           | -  | $\vdash$   | <del>                                     </del> | $\vdash$   | 1 | <b>-</b>    | 98       | <del> </del>                                     | $\vdash$   | <del>  -                                    </del> | $\vdash$   | $\vdash$   | $\vdash$   | t |
| $\vdash$    | 49       | ╁                 | +                                      | +-   | +  | +-           | +  | $\vdash$   | ├─   | $\vdash$   | 1 |             | 99       | $\vdash$   | $\vdash$   | <del> </del>                                       | ╁  | $\vdash$   | $\vdash$   | t |
| -           | 50       | +                 | +                                      | +-   | +  | +-           | +-   | $\vdash$   | $\vdash$   | $\vdash$   | 1 |             | 100      | $\vdash$   | <del>                                     </del> | $\vdash$   | ╁  | $\vdash$   | $\vdash$   | + |
| Щ.          | 1 30     | <u></u>           | ــــــــــــــــــــــــــــــــــــــ | —  | 1  |              | <u></u>  | 1  | <u> </u>   |  | J | Ц           | 1.00     | <u> </u>   | Ь.   | L  | 1  | Ц  | Щ  | 上 |

| Cla      | Claim          |          |          | Date |   |         |           |   |   |          |  |  |  |  |
|----------|----------------|----------|----------|------|---|---------|-----------|---|---|----------|--|--|--|--|
|          |                |          |          |      |   |         |           |   |   |          |  |  |  |  |
| =        | Original       |          |          |      |   |         |           |   |   |          |  |  |  |  |
| Final    | įĝ             |          |          |      |   |         |           |   |   |          |  |  |  |  |
| ┤╙┤      | ŏ              |          |          |      |   |         |           |   |   |          |  |  |  |  |
| ļ        |                | _        | _        |      |   |         |           |   |   |          |  |  |  |  |
| <u> </u> | 51             |          |          |      |   |         |           | _ |   |          |  |  |  |  |
| L        | 52             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 52<br>53       |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 54             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 55             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 56             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 57             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 58             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 58<br>59       |          |          |      | - |         |           |   |   |          |  |  |  |  |
|          | 60             |          |          | -    |   |         |           |   |   |          |  |  |  |  |
|          | 61             | $\neg$   |          |      |   |         | $\neg$    | _ |   |          |  |  |  |  |
| $\vdash$ | 62             |          | -        |      | _ |         | $\exists$ |   | _ |          |  |  |  |  |
| -        |                | $\vdash$ |          |      |   | -       | Н         |   |   | -        |  |  |  |  |
|          | 63             | -        | $\vdash$ | -    |   |         |           |   |   |          |  |  |  |  |
|          | 64             | $\vdash$ |          |      |   |         | Ш         |   |   |          |  |  |  |  |
|          | 65             |          |          |      |   |         | Ш         |   |   |          |  |  |  |  |
|          | 66<br>67       |          |          |      |   | _       |           |   |   | _        |  |  |  |  |
|          | 67             |          |          |      |   | _       | Ш         |   |   |          |  |  |  |  |
|          | 68             |          |          |      |   |         |           |   |   | _        |  |  |  |  |
|          | 69<br>70       |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 70             |          | _        |      |   |         |           |   |   |          |  |  |  |  |
|          | 71_            |          |          |      |   |         |           |   |   |          |  |  |  |  |
| ļ        | 72             | Ш        |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 71<br>72<br>73 |          |          |      |   | _       |           |   | ٠ |          |  |  |  |  |
| L        | 74<br>75       |          |          |      |   |         | _         |   |   |          |  |  |  |  |
|          | 75             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 76             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 77             |          |          |      | _ |         |           |   |   |          |  |  |  |  |
|          | 78             |          |          | П    |   |         |           |   |   |          |  |  |  |  |
|          | 79             |          |          |      | Ш |         |           |   |   | _        |  |  |  |  |
|          | 80             |          |          |      |   |         | L_        |   |   |          |  |  |  |  |
|          | 81             |          |          |      | _ |         |           |   |   | <u>_</u> |  |  |  |  |
|          | 82             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 82<br>83       |          |          |      |   | <u></u> |           |   |   | <u> </u> |  |  |  |  |
|          | 84             |          |          |      |   |         |           | _ |   | <u> </u> |  |  |  |  |
|          | 85             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 86             |          |          |      | L | L       |           |   | L | L        |  |  |  |  |
|          | 87             |          |          |      | L | L       |           |   | L | L        |  |  |  |  |
|          | 88             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 89             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 90             |          |          | L    | L | L       |           |   |   | L        |  |  |  |  |
|          | 91             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 92             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 93             |          |          | L    |   | L       |           |   |   |          |  |  |  |  |
|          | 94             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 95             |          |          |      |   |         |           |   | L |          |  |  |  |  |
|          | 96_            |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 97             |          |          |      |   |         |           |   |   |          |  |  |  |  |
|          | 98             |          |          |      |   |         |           |   |   | L        |  |  |  |  |
|          | 99             |          |          |      |   | L       | L         |   |   |          |  |  |  |  |
|          | 100            |          | Π        | Γ    |   |         | I         |   | Γ |          |  |  |  |  |

| CI.  | aim   | Date     |            |              |              |          |          |          |              | $\neg$        |
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| Final  | Original  |          |            |              |              |          |          |          |              |               |
|  | 101<br>102  |          |            |              |              |          |          |          |              |               |
|  | 102   |          |            |              |              |          |          |          |              |               |
|  | 103   |          |            | Щ            |              |          |          |          |              |               |
|  | 104   |          |            |              |              |          |          |          |              | $\dashv$      |
|  | 103<br>104<br>105<br>106<br>107                             |          |            |              |              | Н        |          |          | $\dashv$     | $\dashv$      |
|  | 107   | H        |            | $\vdash$     |              | Н        |          |          |              | $\dashv$      |
|  | 108   | $\vdash$ | _          |              |              |          |          |          |              |               |
|  | 108<br>109<br>110<br>111<br>112<br>113                      |          | _          |              |              |          |          |          |              |               |
|  | 110   |          |            |              |              |          |          |          |              |               |
|  | 111   | _        |            |              |              |          |          |          |              | $\square$     |
|  | 112   |          |            |              |              |          |          |          |              | $\square$     |
|  | 113   |          | _          |              |              |          |          |          |              | $\dashv$      |
|  | 114   | $\vdash$ | _          | -            |              |          | -        |          |              |               |
|  | 114<br>115<br>116   | H        | -          | H            | -            |          | $\vdash$ | $\vdash$ | H            | $\vdash$      |
|  | 117   |          |            | -            | _            |          | -        |          |              |               |
|  | 117<br>118  | Г        |            |              | _            |          |          |          |              |               |
|  | 119<br>120<br>121   |          |            |              |              |          |          |          |              |               |
|  | 120   |          |            |              |              |          |          |          |              |               |
|  | 121   |          | _          |              | <u></u>      |          | <u> </u> | <u> </u> |              |               |
| -  | 122   |          | <u> </u>   |              | _            | <u> </u> | <u> </u> | <u> </u> |              | -             |
|  | 123   |          | <u> </u>   | _            | -            | -        | -        | <u> </u> |              | Н             |
|  | 125   |          | -          |              | -            |          |          | _        |              | $\vdash$      |
|  | 126   | -        | $\vdash$   | $\vdash$     | ┢            |          |          | $\vdash$ |              | $\vdash$      |
|  | 127   |          |            |              |              |          | _        |          |              |               |
|  | 122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130 |          |            |              |              |          |          |          |              |               |
|  | 129   |          |            |              |              |          |          |          |              |               |
|  | 130   | <u> </u> | L          |              | ļ            |          | _        |          |              |               |
|  | 131   | <u> </u> | <u> </u> _ | <u> </u>     | <u> </u>     |          | <u> </u> | _        | <u> </u>     | -             |
|  | 132   | -        | ┡          |              | ├            | ļ        | -        | ┝        | H            | H             |
| <del> </del>                                     | 133<br>134  | -        | $\vdash$   | $\vdash$     | <u> </u>     |          |          | $\vdash$ | H            | $\vdash$      |
| <del>                                     </del> | 135   | -        | $\vdash$   | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$ | <u> </u> | <u> </u>     | Н             |
| <u> </u>   | 135<br>136  |          |            |              |              |          |          |          |              |               |
|  | 137<br>138<br>139   |          |            |              |              |          |          |          |              |               |
| _  | 138   |          |            |              |              |          |          |          | $oxed{\Box}$ |               |
| <u> </u>   | 139   |          |            | ļ            | <u> </u>     | <u> </u> |          | _        | <u> </u>     | $\sqsubseteq$ |
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| <del>                                     </del> | 143   | -        | -          |              | <del> </del> | $\vdash$ | $\vdash$ | -        | -            |               |
|  | 144   | $\vdash$ |            | _            |              | _        | $\vdash$ | H        |              | Н             |
| l  | 145   |          |            |              |              |          |          |          |              |               |
|  | 146   |          |            |              |              |          |          |          |              |               |
|  | 147   |          |            |              |              |          |          |          |              |               |
|  | 148   | <u> </u> | _          | <u> </u>     | _            | _        | <u> </u> |          | ļ            |               |
|  | 149   | <u> </u> | <u> </u>   | <del> </del> | <u> </u>     | _        | _        | <u> </u> | <u> </u>     | $\vdash$      |
| Щ.   | 150   | L        | L          |              | <u></u>      | <u> </u> | <u> </u> |          | Щ            |               |